

**AMENDMENTS TO THE CLAIMS**

*Please amend the Claims as follows:*

**1. (Currently Amended)** A computer-based method implementing a robust XA 2-phase commit protocol between a client and a server via a relational table and software facilitating communications with said client and said server, said relational table storing a list of potentially indoubt units of work, said method comprising the steps of:

(a) receiving an invocation from said client for a first phase of commit for a transaction representing a unit of work;

(b) inserting an entry in said relational table corresponding to said unit of work and transmitting an instruction to said server to prepare to commit for said transaction, said inserted entry indicating said unit of work is potentially an indoubt entry, said relational table stored in said server, ~~and, to minimize cost, a request for said insertion of entry in said relational table is placed on a network message that includes said instruction to said server to prepare to commit for said transaction; and~~

(c) minimizing cost by placing a request for said insertion of entry in said relational table on a network message that includes said instruction to said server to prepare to commit as part of said XA 2-phase commit protocol for said transaction;

~~(e)~~(d) receiving a request from said client to perform any of the following decisions: a COMMIT, a ROLLBACK, or a RECOVER, and

~~(d)~~(e) updating said relational table after execution of said request.

**2. (Previously Presented)** A computer-based method as per claim 1, wherein, said received request is a COMMIT or a ROLLBACK decision, and said method comprises the steps of:

communicating with said server and processing said COMMIT or ROLLBACK request, and upon successful processing,

deleting an entry corresponding to said COMMIT OR ROLLBACK request in said relational table.

**3. (Previously Presented)** A computer-based method as per claim 1, wherein said received request is a RECOVER decision, and said method comprises the steps of:

querying said relational table to identify a list of indoubt units of work;

transmitting said list of indoubt units of work to said client;

receiving a COMMIT or ROLLBACK decision from said client;

communicating with said server to process said COMMIT or ROLLBACK request, and upon successful processing,

deleting an entry corresponding to said COMMIT or ROLLBACK request in said relational table.

**4. (Previously Presented)** A computer-based method as claim 1, wherein said received request is a RECOVER decision, said server is a database cluster, and said software supports execution of said RECOVER decision even if one or more members of the database cluster are unavailable.

**5. (Previously Presented)** A computer-based method as per claim 1, wherein said relational table specifies row-level locking.

**6. (Previously Presented)** A computer-based method as per claim 1, wherein said relational table is a SQL table and said step of inserting an entry in said relational table is performed via issuing a SQL INSERT instruction.

**7. (Canceled).**

**8. (Previously Presented)** A computer-based method as per claim 1, wherein said method is implemented across networks.

**9. (Previously Presented)** A computer-based method as per claim 8, wherein said across networks element comprises any of, or a combination of, the following: local area network, wide area network, wireless network, or the Internet.

**10. (Previously Presented)** A computer-based method as per claim 1, wherein steps (a) through (d) are performed over a separate network connection, said separate network connection separate from a network connection over which requests for updating entries in said relational table are placed to avoid starting a new unit of work.

**11. (Currently Amended)** A computer-based method as per claim 1, wherein said method comprises the step of mapping said XA 2-phase protocol onto a protocol supported by said server.

**12. (Currently Amended)** An article of manufacture comprising computer storage medium having computer readable program code embodied therein implementing a robust XA 2-phase commit protocol between a client and a server via a relational table and software facilitating communications with said client and said server, said relational table storing a list of potentially indoubt units of work, said medium comprising:

(a) computer readable program code receiving an invocation from said client for a first phase of commit for a transaction representing an unit of work;

(b) computer readable program code inserting an entry in said relational table corresponding to said unit of work and transmitting an instruction to said server to prepare to commit for said transaction, said inserted entry indicating said unit of work is potentially an indoubt entry, said relational table stored in said server ~~and a request for said insertion of entry in said relational table is placed on a network message that includes said instruction to said server to prepare to commit for said transaction;~~

(c) computer readable program code minimizing cost by placing a request for said insertion of entry in said relational table on a network message that includes said instruction to said server to prepare to commit as part of said XA 2-phase commit protocol for said transaction;

~~(e)~~(d) computer readable program code aiding in receiving a request from said client to perform any of the following decisions: a COMMIT, a ROLLBACK, or a RECOVER, and

~~(d)~~(e) computer readable program code updating said relational table after execution of said request.

**13. (Previously Presented)** An article of manufacture as per claim 12, said medium further comprising:

computer readable program code aiding in communicating with said server and processing said COMMIT or ROLLBACK request, and upon successful processing,

computer readable program code deleting an entry corresponding to said COMMIT or ROLLBACK request in said relational table.

**14. (Previously Presented)** An article of manufacture as per claim 12, said medium further comprising:

computer readable program code querying said relational table to identify a list of indoubt units of work;

computer readable program code transmitting said list of indoubt units of work to said client;

computer readable program code receiving a COMMIT or ROLLBACK decision; and

computer readable program code communicating with said server to process said COMMIT or ROLLBACK request, and upon successful processing, computer readable program code deleting an entry corresponding to said COMMIT or ROLLBACK request in said relational table.

**15. (Previously Presented)** An article of manufacture as per claim 12, wherein said relational table specifies row-level locking.

**16. (Previously Presented)** An article of manufacture as per claim 12, wherein said relational table is a SQL table.

**17. (Canceled).**

**18. (Currently Amended)** A computer-based method implementing a robust XA 2-phase commit protocol between a transaction manager and a database cluster via software facilitating communications with said transaction manager and said database cluster, said computer-based method comprising the steps of:

(a) creating an SQL table for storing a list of potentially indoubt units of work;

(b) receiving an invocation from said transaction manager for a first phase of commit for a transaction representing an unit of work;

(c) minimizing cost by placing a request for an SQL INSERT instruction on a network message that includes an instruction to said database cluster to prepare to commit as part of said XA 2-phase commit protocol for said transaction;

~~(e)(d)~~ inserting, via ~~an~~ said SQL INSERT instruction, an indoubt entry in said SQL table corresponding to said unit of work and transmitting ~~a~~ said prepare to commit instruction to said database cluster, ~~said SQL INSERT instruction and said prepare to commit instruction placed on one network message to minimize cost;~~

~~(d)(e)~~ receiving a request from said transaction manager to perform any of the following decisions: a COMMIT, a ROLLBACK, or a RECOVER, and

~~(e)(f)~~ updating said SQL table after execution of said request.

**19. (Previously Presented)** A computer-based method as per claim 18, wherein said received request is a COMMIT or ROLLBACK decision, said method comprising the additional steps of:

communicating with said database cluster and processing said COMMIT or ROLLBACK request, and upon successful processing,

deleting an entry corresponding to said COMMIT or ROLLBACK request in said relational table via an SQL DELETE instruction.

**20. (Previously Presented)** A computer-based method as per claim 19, wherein steps (a) through (e) are performed over a separate network connection, said separate network connection separate from a network connection over which said SQL DELETE instructions are placed to avoid starting a new unit of work.

**21. (Previously Presented)** A computer-based method as per claim 18, wherein said received request is a RECOVER decision, said method comprising the additional steps of:

querying said SQL table to identify a list of indoubt units of work;

transmitting said list of indoubt units of work to said transaction manager;

receiving a commit or rollback decision from said transaction manager; and

communicating with said database cluster to process said COMMIT or ROLLBACK request, and upon successful processing, deleting an entry corresponding to said COMMIT or ROLLBACK request in said SQL table via a SQL DELETE instruction.

**22. (Previously Presented)** A computer-based method as per claim 21, wherein steps of querying, transmitting, receiving, and communicating are performed over a separate network connection, said separate network connection separate from a network connection over which said SQL DELETE instructions are placed to avoid starting a new unit of work.

**23. (Previously Presented)** A computer-based method as per claim 18, wherein said SQL table specifies row-level locking.

**24. (Previously Presented)** A computer-based method as per claim 18, wherein said method is implemented across networks.

**25. (Previously Presented)** A computer-based method as per claim 24, wherein said across networks element comprises any of, or a combination of, the following: local area network, wide area network, wireless network, or the Internet.

**26. (Canceled).**

**27. (Canceled).**

**28. (Canceled).**

**29. (Canceled).**

**30. (Canceled).**

**31. (Canceled).**